

(PCT Article 36 and Rule 70)

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2005/001346

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1-21 as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☒ the claims:
- nos. 2-10, 12-15, 18 as originally filed/furnished
- nos.* _____ as amended (together with any statement) under Article 19
- nos.* 11, 16, 17 received by this Authority on 22.08.2005
- nos.* 1 received by this Authority on 28.11.2005
- ☐ the drawings:
- sheets _____ as originally filed/furnished
- sheets* _____ received by this Authority on _____
- sheets* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	1-18	YES
	Claims		NO
Inventive step (IS)	Claims	1-18	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-18	YES
	Claims		NO
2. Citations and explanations (Rule 70.7)			
<p>This report was prepared based on document 1 below.</p> <p>Document 1: WO 2001/079310 A1 (Japan Science and Technology Corporation), 25 October 2001, claims; page 7, lines 13 to 18; page 19, lines 13 to 17</p> <p>The inventions set forth in claims 1 to 18 are novel, involve an inventive step and are industrially applicable.</p> <p>Document 1 sets forth a salt of a polyacetylene derivative obtained by polymerizing in water, an aryl acetylene derivative having a hydrophilic functional group such as a carboxyl group or a phosphono group on a side chain, in the presence of a specific catalyst and a base such as sodium hydroxide.</p> <p>However, document 1 does not indicate that a support for liquid crystal is contained, or that the concentration of the polyacetylene derivative is set at 1wt% or higher in order to form liquid crystals. Moreover, document 1 does not suggest that when constituted in such a liquid crystal state, the polyacetylene derivative has an extremely high</p>			

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sensitivity as a chiral sensor, and it functions as a highly sensitive chiral sensor using the simple method of measuring the cycle of the spiral structure.